

LISTING OF THE CLAIMS:

1. (Currently Amended) Multilayer structure comprising at least one internal layer and ~~at least one~~ an external layer, wherein the external layer is the outermost layer of the multilayer structure, wherein at least the internal layer is formed from a composition comprising at least one thermoplastic polyamide and at least one impact-resistance modifier present at a concentration by weight of between 10 and 50% of said composition, and in that at least the external layer is formed from a composition comprising as a polymer matrix a polyamide composition comprising:

(i) a polyamide thermoplastic copolymer obtained by copolymerization of ϵ -caprolactam with at least one of the monomers comprising:

- an amino acid comprising at least 9 carbon atoms, or a corresponding lactam, or
- a mixture of hexamethylenediamine with a diacid comprising at least 9 carbon atoms, the ratio by weight between the ϵ -caprolactam and the total amount of hexamethylenediamine and diacid and/or said amino acid or the corresponding lactam being between 4 and 9, or

(ii) a mixture of at least said thermoplastic polyamide copolymer (i) and at least one second thermoplastic polyamide or copolyamide obtained by polymerization of monomers comprising fewer than 9 carbon atoms, the content by weight of the second thermoplastic polyamide or copolyamide ~~polymer or copolymer~~ in the polymer matrix being between 0 and 80% by weight.

2. (Previously Presented) Structure according to claim 1, wherein the composition forming the external layer comprises an impact modifier.

3. (Currently Amended) Structure according to claim 2, wherein the content of impact modifier present in the external layer when the polymer matrix is formed by the mixture (ii) is between 5% and 50% by weight of the thermoplastic composition forming the said layer.

4. (Previously Presented) Structure according to claim 1, wherein it forms a pipe, a tube or the walls of a chamber.

5. (Previously Presented) Structure according to claim 1, which comprises intermediate layers arranged between the external and internal layers.

6. (Previously Presented) Structure according to claim 5, wherein at least one of said intermediate layers are formed from the composition forming the external layer of the structure.

7. (Previously Presented) Structure according to claim 5, wherein at least one of the intermediate layers are formed from the composition forming the internal layer.

8. (Previously Presented) Structure according to claim 21, wherein the internal intermediate layer and the external intermediate layer are arranged alternately in the transverse direction of the structure.

9. (Previously Presented) Structure according to claim 5, wherein the intermediate layers comprise a layer formed by the composition forming the external layer, and a layer formed by the composition forming the internal layer.

10. (Previously Presented) Structure according to claim 1, wherein the composition forming the external layer comprises a first 6/6-36 thermoplastic copolyamide and a second PA 6 thermoplastic polyamide.

11. (Previously Presented) Structure according to claim 1, wherein the composition forming the external layer comprises an impact modifier, optionally comprising functional groups which can react with the polyamide or polyamides.

12. (Previously Presented) Structure according to claim 1, wherein the composition forming the internal layer has a flexural modulus of less than 1500 MPa.

13. (Previously Presented) Structure according to claim 1, wherein the composition forming the internal layer comprises a chain extender for the polyamide matrix, which is present at a concentration by weight of between 0.05% and 5% of the polyamide matrix.

14. (Previously Presented) Structure according to claim 1, wherein the impact-resistance modifier contained in the composition forming the internal layer comprises a compound having a Tg below 0°C and a modulus of less than 200 MPa.

15. (Previously Presented) Structure according to claim 14, wherein the impact-resistance modifier comprises a polyolefin.

16. (Previously Presented) Structure according to claim 14, wherein at least some of the impact modifiers comprise polar functional groups capable of reacting with the polyamide matrix.

17. (Previously Presented) Structure according to claim 16, wherein the polar functional groups are selected from the group consisting of acid, anhydride, acrylic, methacrylic and epoxy functional groups.

18. (Previously Presented) Structure according to claim 15, wherein the impact modifier is an ultra-low-density polyethylene (ULDPE) having a density of less than 0.9 g/cm³ and a melt flow index of between 0.1 and 7 g/10 min measured at 190°C under a load of 2.16 kg.

19. (Previously Presented) Structure according to claim 5, wherein the composition forming the internal layer and/or the internal intermediate layer comprises a plasticizer for the polyamide, which is present at a concentration by weight of between 1 and 20% relative to the polyamide matrix.

20. (Previously Presented) Tube or pipe wherein the wall of the tube or pipe has a multilayer structure according to claim 1.

21. (Previously Presented) Structure according to claim 5, wherein the intermediate layers comprise an internal intermediate layer formed from the composition forming the internal layer, and an external intermediate layer formed from the composition forming the external layer.

22. (Previously Presented) Structure according to claim 21, wherein the composition forming the external intermediate layer comprises a first 6/6-36 thermoplastic copolyamide and a second PA 6 thermoplastic polyamide.

23. (Previously Presented) Structure according to claim 21, wherein the composition forming the external intermediate layer comprises an impact modifier, optionally comprising functional groups which can react with the polyamide or polyamides.

24. (Previously Presented) Structure according to claim 21, wherein the composition forming the internal intermediate layer has a flexural modulus of less than 1500 MPa.

25. (Currently Amended) Structure according to claim 1, wherein the at least one internal layer is adjacent to the ~~at least one~~ external layer.

26. (Previously Presented) Structure according to claim 1, wherein the stress cracking resistance of the structure measured in a ZnCl_2 solution according to international standard SAE J 844 is greater than 500 hours.